

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [0675810011](#)  
**Status:** **Active**  
**Overview:** [serial\\_ata\\_products](#)  
**Description:** 1.27mm (.050") Pitch Serial ATA Crimp Terminal for Power Cable Receptacle, 0.76µm (30µ") Gold (Au) Plating, with Reel Direction - Type 2, Lead free

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)  
[Product Specification PS-67490-002 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

**General**

|                         |                                     |
|-------------------------|-------------------------------------|
| Product Family          | Crimp Terminals                     |
| Series                  | <a href="#">67581</a>               |
| Crimp Quality Equipment | Yes                                 |
| Overview                | <a href="#">serial_ata_products</a> |
| Product Name            | Serial ATA                          |

**Physical**

|                                |                          |
|--------------------------------|--------------------------|
| Durability (mating cycles max) | 50                       |
| Gender                         | Female                   |
| Material - Metal               | Phosphor Bronze          |
| Material - Plating Mating      | Gold                     |
| Material - Plating Termination | Tin                      |
| Packaging Type                 | Reel                     |
| Plating min: Mating (µin)      | 30                       |
| Plating min: Mating (µm)       | 0.76                     |
| Plating min: Termination (µin) | 73.82                    |
| Plating min: Termination (µm)  | 1.85                     |
| Termination Interface: Style   | Crimp or Compression     |
| Wire Insulation Diameter       | 2.20-1.60mm(0.087-0.063) |
| Wire Size AWG                  | 18, 20, 22               |
| Wire Size mm²                  | 3.79-2.00                |

**Electrical**

|                               |        |
|-------------------------------|--------|
| Current - Maximum per Contact | 1.5A   |
| Voltage - Maximum             | 15V DC |

**Solder Process Data**

|                              |                        |
|------------------------------|------------------------|
| Lead-free Process Capability | Wave Capable (TH only) |
|------------------------------|------------------------|

**Material Info**

**Reference - Drawing Numbers**

|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-67581-001 |
| Product Specification   | PS-67490-002 |
| Sales Drawing           | SD-67581-001 |

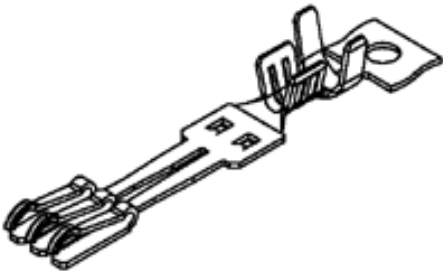


image - Reference only

Series

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Halogen-Free**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**  
[67581Series](#)

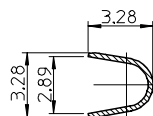
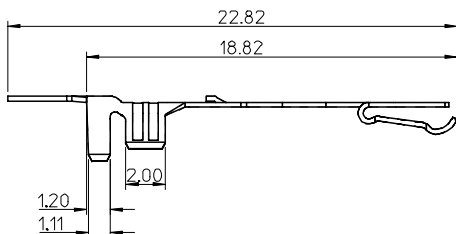
**Use With**  
[67582 Crimp Housing](#)

**Application Tooling | FAQ**  
*Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.*  
**Global**  

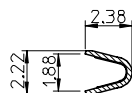
| Description            | Product #                  |
|------------------------|----------------------------|
| T2 Terminator Die      | <a href="#">0638561000</a> |
| FineAdjust™ Applicator | <a href="#">0638661000</a> |

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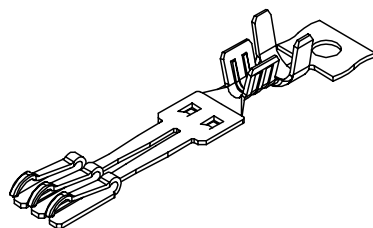
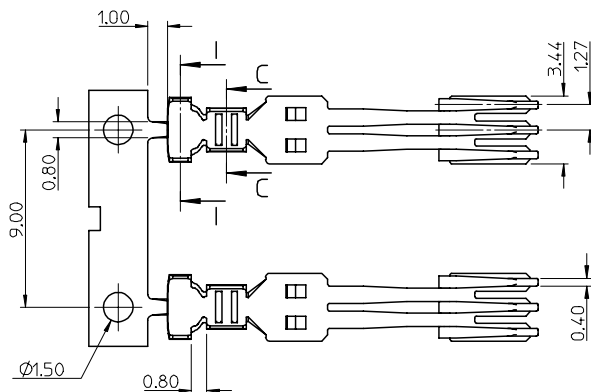
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Section I-I

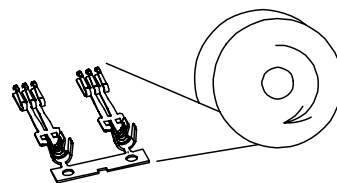


Section C-C

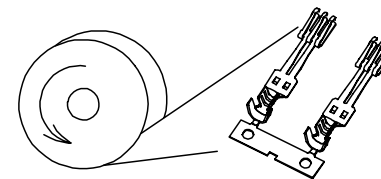


NOTES:

1. MATERIAL :  
PHOSPHOR BRONZE, THICKNESS = 0.25mm
2. PLATING :  
CONTACT AREA: (A) GOLD FLASH  
(B) GOLD PLATED 0.76 MICRON.  
(C) GOLD PLATED 0.38 MICRON.  
CRIMPING AREA: TIN PLATED 1.875 MICRON MINIMUM.  
UNDER PLATE: NICKELPLATED 1.25 MICRON MINIMUM.
3. TO BE USED WITH 67582, 5 SETS TERMINAL PER HOUSING
4. PRODUCT SPECIFICATION REFER TO PS-67490-002
5. PACKAGE SPECIFICATION REFER TO PK-67581-001
6. CRIMPING SPECIFICATION REFER TO CS-67581-001
7. RECOMMEND WIRE SIZE: 18/20/22AWG
8. PRODUCT COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC.



BEFORE CRIMPING  
TYPE I



BEFORE CRIMPING  
TYPE II

| P/N        | CONTACT AREA<br>GOLD PLATING | TYPE    |
|------------|------------------------------|---------|
| 67581-0000 | GOLD FLASH                   | TYPE I  |
| 67581-0001 | 0.76 MICRON<br>GOLD PLATING  |         |
| 67581-0002 | 0.38 MICRON<br>GOLD PLATING  |         |
| 67581-0010 | GOLD FLASH                   | TYPE II |
| 67581-0011 | 0.76 MICRON<br>GOLD PLATING  |         |
| 67581-0012 | 0.38 MICRON<br>GOLD PLATING  |         |

|                                                                                        |             |                                   |                                                                                                                                  |        |                            |                           |                    |                                                      |                           |                     |
|----------------------------------------------------------------------------------------|-------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|---------------------------|--------------------|------------------------------------------------------|---------------------------|---------------------|
| NEW RELEASE<br>EC NO: SH2007-0312<br>DRWN: B. CHEN26<br>CHKD: J. TIAN<br>APPR: J. CHEN | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                            |        | DIMENSION STYLE<br>MM ONLY |                           | SCALE<br>4:1       | DESIGN UNITS<br>METRIC                               | THIRD ANGLE<br>PROJECTION |                     |
|                                                                                        |             |                                   |                                                                                                                                  | mm     | INCH                       | DRAWN BY<br>GRATE MA      | DATE<br>2003/08/15 | TITLE<br>TERMINAL FOR SATA POWER<br>CABLE RECEPTACLE |                           |                     |
|                                                                                        |             |                                   | 4 PLACES                                                                                                                         | ± ---  | ± ---                      | CHECKED BY<br>YA JUN      | DATE<br>2003/08/15 |                                                      |                           |                     |
|                                                                                        |             |                                   | 3 PLACES                                                                                                                         | ± ---  | ± ---                      |                           |                    |                                                      |                           |                     |
|                                                                                        |             |                                   | 2 PLACES                                                                                                                         | ± 0.25 | ± .010                     |                           |                    |                                                      |                           |                     |
|                                                                                        |             |                                   | 1 PLACE                                                                                                                          | ± 0.25 | ± .010                     | APPROVED BY<br>SAM        | DATE<br>2003/08/15 | MOLEX INCORPORATED                                   |                           |                     |
|                                                                                        |             |                                   | ANGULAR ± 3 °                                                                                                                    |        |                            |                           |                    |                                                      |                           |                     |
|                                                                                        |             |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |        |                            | MATERIAL NO.<br>SEE TABLE |                    | DOCUMENT NO.<br>SD-67581-001                         |                           | SHEET NO.<br>1 OF 1 |
| REV                                                                                    |             |                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                           |                    |                                                      |                           |                     |

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